



2570
0831

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/842,484

Source: OPE

Date Processed by STIC: 9/10/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

DATE: 09/10/2001

PATENT APPLICATION: US/09/842,484

TIME: 11:18:22

Input Set : A:\sequence listings.txt

Output Set: N:\CRF3\09102001\I842484.raw

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Paul DeAngelis
W--> 2 <120> TITLE OF INVENTION: CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING
SAME
W--> 3 <130> FILE REFERENCE: 5820.601
W--> 4 <140> CURRENT APPLICATION NUMBER: Not Yet Assigned
C--> 5 <141> CURRENT FILING DATE: 2001-08-24
W--> 6 <160> NUMBER OF SEQ ID: 7
7 <170> SOFTWARE: WordPerfect 8.0 (saved in ASCII format)

PLEASE
Consult sequence
Rule for valid format
see following pages

ERRORED SEQUENCES

W--> 8 <210> SEQ ID NO: 1
9 <211> LENGTH: 2941 base pairs
10 <212> TYPE: DNA
11 <213> ORGANISM: Pasteurella Multocida
W--> 12 <220> FEATURE:
E--> 13 <400> SEQUENCE: 0

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W--> 17 121	aaattatttg agaagtctgc tgaaacctac gggcgaaaaa tcggtgaatt ccaaattatc
W--> 18 181	aaatgtaaag aaaaactctc gaccaattct tatgtaagt aagataaaaa aaacagtggt
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W--> 20 301	ctatccgaat cagaaaaaaa cagtttaaaa aataaatgga aatctatcac tgggaaaaaa
W--> 21 361	tcggagaacg cagaaatcag aaaggtggaa ctagtaccga aagattttcc taaagatctt
W--> 22 421	gttcttgctc cattgccaga tcatgttaat gattttacat ggtacaaaaa tcgaaaaaaa
W--> 23 481	agcttaggta taaagcctgt aaataagaat atcgggtcttt ctattattat tctacattt
W--> 24 541	aatcgtagcc gtattttaga tataacgta gctgtttgg tcaatcagaa aacaaactac
W--> 25 601	ccatttgaaag tcgttggtgc agatgatggt agtaaggaaa acttacttac cattgtgcaa
W--> 26 661	aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
W--> 27 721	tgtgcagtca gaaacttagg ttacgtaca gcaaagtatg attttgtctc gattctagac
W--> 28 781	tgcgatatgg caccacaaca attatgggtt cattcttacc ttacagaact attagaagac
W--> 29 841	aatgatattg ttttaattgg acctagaaaa tatgtggata ctcataatat taccgcagaa
W--> 30 901	caattccetta acgatccata tttaatagaa tcaactacct aaaccgctac aaataacaat
W--> 31 961	ccttcgatta catcaaaagg aaatatatcg ttggattgga gattagaaca tttcaaaaaa
W--> 32 1021	accgataatc tacgtctatg tgattctcgg tttcggttatt ttgttgcggg taatgttgca
W--> 33 1081	ttttctaaag aatggctaaa taaagtaggt tgggttcgatg aagaatttaa tcattggggg
W--> 34 1141	ggcgaagatg tagaatttgg ttacagatta tttgccaaag gctgtttttt cagagtaatt
W--> 35 1201	gacggcggaag tggccatcca tcaagaacca cctggtaaaag aaaatgaaac agaacgcgaa
W--> 36 1261	gctggtaaaa gtattacgct taaaattgtg aaagaaaagg taccttacct ctatagaaag
W--> 37 1321	ctttttacca tagaagattc acatattcat agaatacctt tagtttctat ttatatcccc
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W--> 40 1501	aataagcttt atggtaataa tcttagggta cgcacatgtg ctaaaccaaa tggcgggaat
W--> 41 1561	gcctcagcat caaatgcagc cgtttctttt gctaaagggtt attacattgg gcagttagat
W--> 42 1621	tcagatgatt atcttgagcc tgatgcagtt gaactgtggt taaaagaatt tttaaaagat
W--> 43 1681	aaaacgctag cttgtgttta taccactaat agaaacgtca atccggatgg tagcttaatc
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Many
errors

09/842,484 2

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 (saved in ASCII format)
<210> 1
<211> 2941 base pairs
<212> DNA
<213> Pasteurella Multocida
<220>

(2237-400) pmCS DNS Sequence
(40071) ← (4007 always for the SEQ ID NO. as response

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61 atgaatacat tatcacaagc aataaaagca tataacagca atgactatga attagcactc
121 aaattatttg agaagtctgc tgaacctac gggcgaaaaa tcgttgaatt ccaaattatc
181 aaatgtaaag aaaaactctc gaccaattct tatgtaatg aagataaaaa aaacagtgtt
241 tgcgatagct cattagatat cgcaacacag ctcttacttt ccaacgtaaa aaaattaact
301 ctatccgaat cagaaaaaaa cagtttataaa aataaatgga aatctatcac tgggaaaaaa
361 tcggagaacg cagaaatcag aaaggtggaa ctagtacca aagattttcc taaagatctt
421 gttcttgctc cattgccaga tcatgttaat gattttacat ggtacaaaaa tcgaaaaaaa
481 agcttaggta taaagcctgt aaataagaat atcgggtctt ctattattat tctacattt
541 aatcgtagcc gtattttaga tataacgta gcctgtttgg tcaatcagaa acaaaactac
601 ccatttgaag tcgttgttgc agatgatggg agtaaggaaa acttacttac cattgtgcaa
661 aaatacgaac aaaaacttga cataaagtat gtaagacaaa aagattatgg atatcaattg
721 tgtgcagtca gaaacttagg ttacgtaca gcaaagtatg attttgtctc gattctagac
781 tgcgatattg caccacaaca attatgggtt cattcttacc ttacagaact attagaagac
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901 caattcctta acgatccata tttaatagaa tcaactacct aaaccgctac aaataacaat
961 ccttcgatta catcaaaagg aaatatatcg ttggattgga gattagaaca tttcaaaaaa
1021 accgataatc tacgtctatg tgattctccg tttcggtatt ttgttgctgg taatgttgca
1081 ttttctaaag aatggctaaa taaagtaggt tgggtcgatg aagaatttaa tcattggggg
1141 ggcgaagatg tagaatttgg ttacagatta tttgcaaag gctgtttttt cagagtaatt
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1501 aataagcttt atggtaataa tcctagggtg cgcacatgt ctaaaacaaa tggcggaata
1561 gcctcagcat caaatgcagc cgtttctttt gctaaagggt attacattgg gcagttagat
1621 tcagatgatt atcttgagcc tgatgcagtt gaactgtgtt taaaagaatt tttaaaagat
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2041 atcaattatt ataattatga caaatttgat gatttagatg aaagtagaaa gtatatcttc
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2221 aaaaaactaa acaatattat tgaatataat aaaaatatat tcgttattat tctacatggt
2281 gataagaatc atcttacacc agacatcaaa aaagaaatat tggctttcta tcataagcac
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2461 atcatttttg ataataatga cagcctatcc gttaaaaatg acagctatgc ttatatgaaa
2521 aaatatgatg tcggcatgaa tttctcagca ttaacacatg attggatcga gaaaatcaat

60 insert
120 cumulative
↓ base total
at right
margin of
each line

↓

Delete

09/8424843

2581 ggcgatccac catttaaaaa gctgattaaa acctatttta atgacaatga cttagaagt
2641 atgaatgtga aaggggcatc acaaggatg tttatgaagt atgcgctacc gcatgagctt
2701 ctgacgatta ttaaagaagt catcacatcc tgccaatcaa ttgatagtgt gccagaatat
2761 aacactgagg atatttggtt ccaatttgca cttttaatct tagaaaagaa aaccggccat
2821 gtattttaata aaacatcgac cctgacttat atgccttggg aacgaaaatt acaatggaca
2881 aatgaacaaa ttcaaagtgc aaaaaaaggc gaaaatatcc ccgttaacaa gttcattatt
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Delete all these blank lines



This info. appears only once in the
sequence
Listing

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820/601
<140> Not Yet Assigned
<141> Herewith
<160> *
<170> WordPerfect 8.0 *Software*
<210> 2
<211> 961 base pairs
<212> PRT

this is an amino acid sequence

09/842,484

<213> Pasteurella Multocida

<220>

(223) <400> pmCS Protein Sequence

44007 2

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121 vlaplpdhvn dftwyknrkk slgikpvnkn iglsiiptf nrsrilditl aclvnqktny
181 pfevvvaddg skenlltivq kyeqkldiky vrqkdygyql cavnrlglrt akydfvsild
241 cdmapqqlwv hsyltelled ndivligprk yvdthnita qflndpylie slpetatnnn
301 psitskgnis ldwrlehfkk tdnrlrcdsp fryfvagnva fskewlnkvg wfdeefnhwg
361 gedvefgyrl fakgcffrvi dggmaihqep pgkenetere agksitlkiv kekvpviyrk
421 llpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevbicnd gstdntlevi
481 nklygnnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541 ktlacvyttv rnvnpdgsli angynwpefs reklttamia hhfrmftira whltdgfnen
601 ienavdydmf lklsevgkfk hlnkicynrv lhgdnstikk lgiqkknfv vvnqslnrqg
661 inyyndkfd dldesrkyif nktaeyqeem dmlkdkliq nkdakiafsi fypntlnglv
721 kklnniieyn knifviilhv dknhltpdik keilafyhkh qvnillnndi syytsnrlik
781 teahlsnink lsqnlncney iifdnhdslf vkndsyaymk kydvgnmfsa lthdwiekin
841 ahppfkklk tyfndndlrs mnvkgasqgm fmkyalpel ltiikevits cqsidsvpey
901 ntediwfqfa llilekktgh vfnktstlty mpwerklqwt neqigsakkg enipvnkfii
961 nsitl
  
```

do not
use
one-letter
amino acids

Use
three-letter
amino acids

and number

them
under
every 5

amino
acids -

do not use
TAB codes -

use space
characters

between nos.

delete

<110> Paul DeAngelis

<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME

<130> 5820.601

<140> Not Yet Assigned

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<170> WordPerfect 8.0 *Software*

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<211> 2941 base pairs

<212> DNA

<213> Pasteurella Multocida

<220>

(223) <400> pmCS DNA Sequence

44007 3

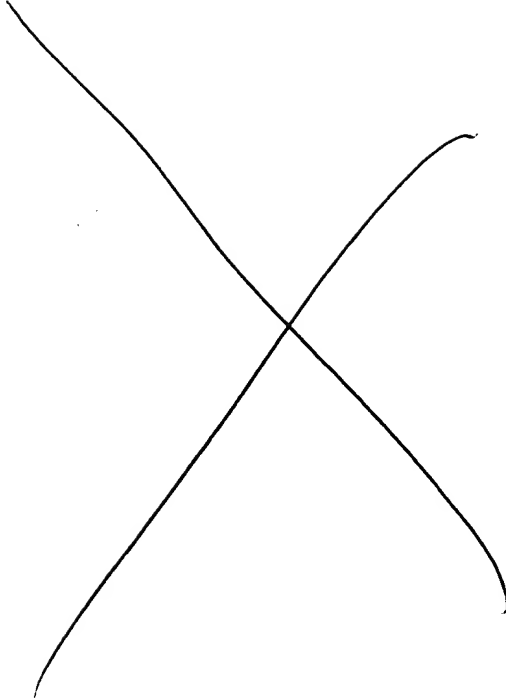
* ttataaactg attaaagaag gtaaacgatt caagcaaggt taatttttaa aggaaagaaa

insert
cumulative
base total at
right margin
of each line

001842,484 5

61 atgaatacat tatcacaagc aataaaaagca tataacagca atgactatga attagcactc
121 aaattatttg agaagtctgc tgaacctac gggcgaaaaa tcgttgaatt ccaaattatc
181 aaatgtaaag aaaaactctc gaccaattct tatgtaagtg aagataaaaa aaacagtgtt
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2101 aataaaaaccg ctgaatatca agaagaaatg gatattttaa aagatcttaa actcattcaa
2161 aataaagatg ccaaaatcgc agtcagtatt ttctatccca atacattaaa cggcttagtg
2221 aaaaaactaa acaatattat tgaatataat aaaaatatat tcgttattat tctacatgtt
2281 gataagaatc atcttacacc agacatcaaa aaagaaatat tggctttcta tcataagcac
2341 caagtgaata ttttactaaa taatgacatc tcatattaca cgagtaatag actaataaaa
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fix this



<110> Paul DeAngelis
 <120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
 <130> 5820.601
 <140> Not Yet Assigned
 <141> Herewith
 <160> 7
 <170> WordPerfect 8.0 *Software*
 <210> 4
 <211> 961 ~~base pairs~~
 <212> PRT
 <213> Pasteurella Multocida
 <220>

(223) ~~400~~ pmCS Protein Sequence
 240574

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121 vlaplpdhvn dftwyknrkk slgikpvkn iglsiiptf nrsrilditl aclvnqktny
181 pfewvvaddg skenlltivq kyeqkldiky vrqkdygyql cavnrlglrt akydfvsild
241 cdmapqqlwv hsyltelled ndivligprk yvdthnitae qflndpylie slpetatnnn
301 psitskgnis ldwrlehfkf tdnrlrlcdsp fryfscgnva fskewlnkvg wfdeefnhwg
361 gedvefgyrl fakgcffrvi dggmayhqep pgkenetdre agksitlkiv kekvpaiyrk
421 lpiedshih riplvsiyip ayncanyiqr cvdsalnqtv vdlevbicnd gstdntlevi
481 nklygnnprv rimskpnggi asasnaavsf akgyyigqld sddylepdav elclkeflkd
541 ktlacvyttt rnvnpdgsli angynwpefs reklttamia hhfrmftira whltdgfnen
601 ienavdydmf lklsevgkfk hlnkicynrv lhgdnstikk lgiqkknhf vvnqslnrqg
661 inyyndkfd dldesrkyif nktaeyqeem dilkdikliq nkdakiavsi fypntlnglv
  
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follow instructions on previous page (p. 4)

09/842,484 7

721 kklnniieyn knifviilhv dknhltpdik keilafyhkh qvnillnndi syytsnrlik
781 teahlsnink lsqnlncney iifdnhdslf vkndsyaymk kydvgnmfsa lthdwiekin
841 ahppfkklik tyfndndlrs mnvkgasqgm fmkyalphel ltiikevits cqsidsvpey
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961 nsitl

delete

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
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<213> Pasteurella Multocida
<220>

(223) 400> Primer

640075
CACTGTCTAACTTTATTGTTAGCC

*invalid - group all non-coding bases into 10's,
with a space between each group.
Insert cumulative base total at right
margin of each line. Use lower-case
letters for bases*

delete

<110> Paul DeAngelis
 <120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
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 <210> 6
 <211> 20 base pairs
 <212> DNA
 <213> Pasteurella Multocida
 <220>

(223) ~~400~~ Primer

~~400~~ 6

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fix this per previous page

09/842, 484 9

<110> Paul DeAngelis
<120> CHONDROITIN SYNTHASE GENE AND METHODS OF MAKING AND USING SAME
<130> 5820.601
<140> Not Yet Assigned
<141> Herewith
<160> 7
<170> WordPerfect 8.0 *Software*
<210> 7
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<212> PRT
<213> Pasteurella Multocida
<220>

(223) ~~<400>~~ Antibody

~~<400>~~ 7

LDSDDYLEPDAVELCLKEF

involved - follow p. 4 instructions

PSI

Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.